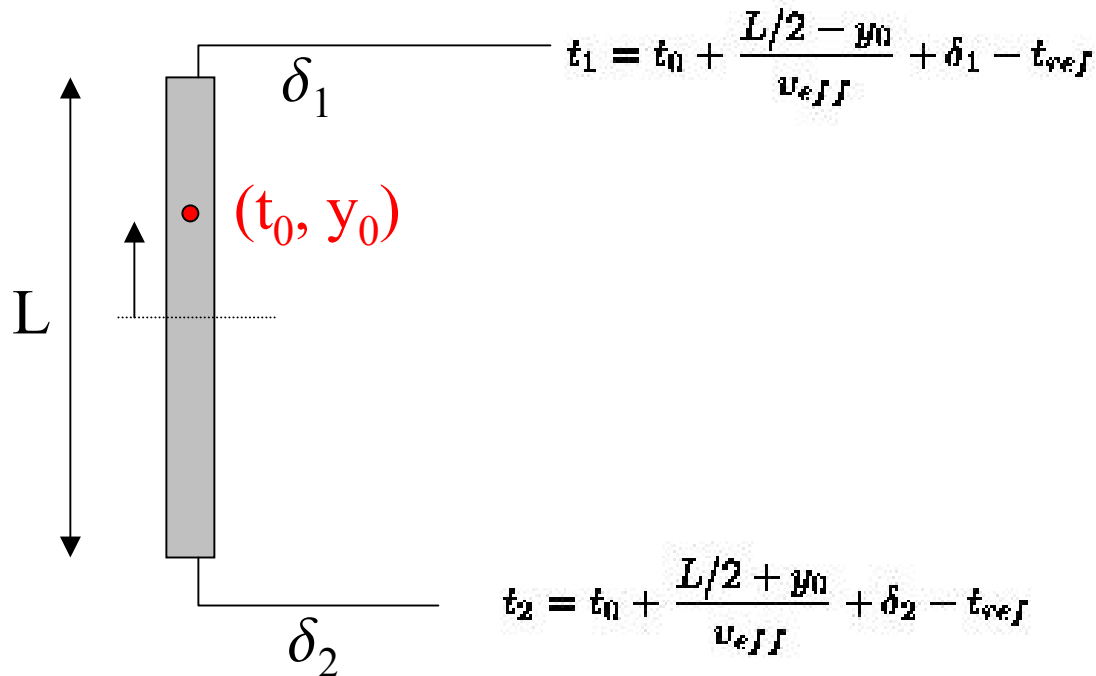


Beam ToF Delay Calibration (February 17, 2004)



define:

$$d = \delta_2 - \delta_1$$

$$D = \frac{\delta_2 + \delta_1}{2}$$

$$\Delta T = \frac{t_2 + t_1}{2} = t_0 + \frac{L}{2v_{eff}} + \textcircled{D} - t_{eff}$$

$$\Delta t = \frac{t_2 - t_1}{2} = \frac{y_0}{v_{eff}} + \textcircled{\frac{d}{2}}$$

can solve for individual delays

for now, assume particle passes at $y_0 = 0$. But, MWPC's can give us y_0 (for TofB at least)